Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

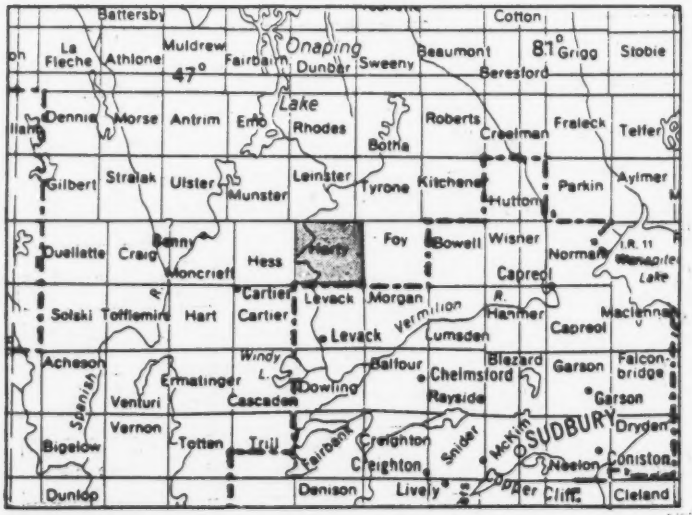
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 457

HARTY TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles

CANADA ONTARIO
Mineral Development
Exploitation Minérale

This project is part of the five year Canada–Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

89-05965/

NTS Number 41 I/14

Mining Claim Map Number M. 920

This project was funded by the Canada-Ontario Mineral Development Agreement (COMDA).

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1989: Harty Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 457, compiled by the staff of the Resident Geologist's Office, Sudbury, 17 pages and 2 maps.

Original Compilation by: Jerome, Lucille, March 1988

Date	Page Revised	Revised by

Date	Page Revised	Revised by

HARTY TOWNSHIP

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	**28.349 523**	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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ACCOMPANYING MAPS

Property Location Map 1
Exploration Data Map 1
Map Scale 1: 31 680 or 1 inch to ½ mile

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L. J.
2	Assessment Files Research Office, Toronto	N.A.	L. J.
3	ODM General Index; 9 Volumes	Yes	L. J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	L. J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	L. J.
6	ODM Industrial Mineral Reports	No	L. J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L. J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L. J.
9	Newspaper Clippings File	No	L. J.
10	GSC Index to Publications	Yes	L. J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L. J.
12	OGS Index Maps	Yes	L. J.
13	Source Mineral Deposit Records (O.G.S.)	No	L. J.
14	Author - Subject Articles File	Yes	L. J.
15	Miscellaneous Papers: ODM & OGS	Yes	L. J.
16	ODM Geological Circulars: OGS Study Series	No	L. J.
17	ODM Preliminary Reports: ODM Bulletins	No	L. J.
18	ODM – OGS Open File Reports	No	L. J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L. J.
20	OGS Aggregate Resources Inventory Papers	No	L. J.
21	OGS Mineral Potential Maps	Yes	L. J.
22	Theses on File, Sudbury	No	L. J.
23	Aerial Photographs on File, Sudbury	Yes	L. J.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . .Anhydrite
- △ ank. . . . . .Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . .Apatite
- △ arg . . . . . Argentite
- △ As . . . . . .Arsenic
- △ asp . . . . . .Arsenopyrite
- △ asb . . . . . .Asbestos
- △ ba. . . . . .Barite
- △ be. . . . . .Beryl
- △ Bi. . . . . .Bismuth
- △ bn . . . . . .Bornite
- △ bran . . . . . .Brannerite
- △ bruc . . . . . .Brucite
- △ Cd . . . . . .Cadmium
- △ calc. . . . . .Calcite
- △ carb . . . . . .Carbonate
- △ cel . . . . . .Celestite
- △ cc. . . . . .Chalcocite
- △ cp. . . . . .Chalcopyrite
- △ ch. . . . . .Chert
- △ clay . . . . . .Clay
- △ Co . . . . . .Cobalt
- △ cob. . . . . .Cobaltite
- △ cb. . . . . .Columbite
- △ Cu . . . . . .Copper
- △ cor . . . . . .Corundum
- △ dol . . . . . .Dolomite
- △ ep. . . . . .Epidote
- △ ery . . . . . .Erythrite
- △ fel . . . . . .Feldspar
- △ fl . . . . . .Fluorite (fluorspar)
- △ fu. . . . . .Fuchsite
- △ gn. . . . . .Galena
- △ gt. . . . . .Garnet
- △ goe . . . . . .Goethite
- △ Au . . . . . .Gold
- △ gf. . . . . .Graphite
- △ gl . . . . . .Gravel
- △ gyp. . . . . .Gypsum
- △ hem . . . . . .Hematite
- △ il . . . . . .Ilmenite
- △ Fe . . . . . .Iron
- △ IF. . . . . .Iron Formation
- △ jas . . . . . .Jasper
- △ kaol . . . . . .Kaolinite (kaolin)
- △ ky . . . . . .Kyanite
- △ Pb . . . . . .Lead
- △ lim . . . . . .Limonite
- △ Li. . . . . .Lithium
- △ mgst . . . . . .Magnesite
- ▲ mag . . . . . .Magnetite
- △ mc . . . . . .Malachite
- △ Mn . . . . . .Manganese
- △ mb . . . . . .Marble
- △ mar. . . . . .Marcasite
- △ ma . . . . . .Marl
- △ mi . . . . . .Mica
- △ ml . . . . . .Millerite
- △ mo . . . . . .Molybdenite
- △ Mo . . . . . .Molybdenum
- △ mon . . . . . .Monazite
- △ ne. . . . . .Nephelite (nepheline)
- △ nc. . . . . .Niccolite
- △ Ni. . . . . .Nickel
- △ Nb . . . . . .Niobium
- △ Pd . . . . . .Palladium
- △ peat . . . . . .Peat
- △ pent . . . . . .Pentlandite
- △ Pt. . . . . .Platinum
- △ py . . . . . .Pyrite
- △ pyl . . . . . .Pyrochlore
- △ pyrl . . . . . .Pyrolusite
- △ po . . . . . .Pyrrhotite
- △ q . . . . . .Quartz
- △ qcv . . . . .Quartz carbonate vein
- △ ra. . . . . .Radioactive minerals
- △ RE . . . . . .Rare Earths
- △ sd. . . . . .Sand
- △ sgl . . . . . .Sand and gravel
- △ ss . . . . . .Sandstone
- △ scap . . . . . .Scapolite
- △ shee . . . . . .Scheelite
- △ serp . . . . . .Serpentine
- △ sh. . . . . .Shale
- △ sid . . . . . .Siderite
- △ si . . . . . .Silica
- △ Ag . . . . . .Silver
- △ sl . . . . . .Slate
- △ sm . . . . . .Smaltite
- △ sod . . . . . .Sodalite
- △ spec . . . . . .Specularite
- △ sp. . . . . .Sphalerite
- △ spd . . . . . .Spodumene
- △ staur . . . . . .Staurolite
- △ stib. . . . . .Stibnite
- △ st . . . . . .Stone
- △ talc. . . . . .Talc
- △ Te . . . . . .Tellurium
- △ td. . . . . .Tetrahedrite
- △ th. . . . . .Thorite
- △ Th . . . . . .Thorium
- △ thuc . . . . . .Thucholite
- △ ti . . . . . .Titanite
- △ Ti. . . . . .Titanium
- △ tour . . . . . .Tourmaline
- △ trap . . . . . .Trap rock
- △ W. . . . . .Tungsten
- △ uran . . . . . .Uraninite
- △ U . . . . . .Uranium
- △ verm . . . . . .Vermiculite
- △ Y . . . . . .Yttrium
- △ Zn . . . . . .Zinc
- △ zr . . . . . .Zircon

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

lap ef. tter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A.	Harty Township Occurrence	mag	--	--	OGS Map 2435

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
	COMPANY/AUTHOR (file number)																			
1	Inco Ltd. (Harty 0010-A1)				67															
2	Falconbridge Nickel Mines Ltd. (Harty 0010-D1)				68															
3	Falconbridge Nickel Mines Ltd. (Harty 0010-E1)				67															
4	Dome Exploration (Canada) Ltd. (Harty 0011)								74		74									
5	BP Resources Canada Ltd. (Harty SP-001)								87	87										

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Inco Ltd.	33322	1967	115	45	5	268	S	
2		32869	1967	180	50	3	437		
2		32868	1967	180	45	11	269		
2		33320	1967	180	45	5	182	S	
3		32865	1967	180	45	4	193		
3		33321	1967	180	45	5	111		
2		32863	1967	180	45	2.5	215		
2		32866	1967	180	45	3	430	S	
3		32864	1967	180	45	5	192		
3		32867	1967	180	45	6	274		
4	Falconbridge Nickel Mines	HTY-1	1968	090	45	6	786	ep	
4	Ltd.	HTY-2	1968	090	60	12	292	hem	
4		HTY-3	1968	090	52	10	290	ep	
4		HTY-4	1968	090	39	6	232		
5		L-319	1967	--	90	56	56		
6		L-320	1967	--	90	60	60		
7		L-321	1967	--	90	42	44		
8		L-322	1967	--	90	60	60		
9		L-324	1967	--	90	60	60		

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
4	Geoterrex Ltd. Dome Exploration (Canada) Ltd.	Airborne Magnetometer and Airborne Radiometric	150-200 ft.	325°	1/8 mile
5	Aerodat Ltd. BP Resources Canada Ltd.	Airborne Magnetometer and Airborne Electromagnetometer	60 m	N/S	125 m

GDIF FORM NO. 4

HARTY TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO. 6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

ODM GENERAL INDEX SEARCH

Words searched:
BP RESOURCES CANADA LTD.
DOME EXPLORATION (CANADA) LTD.
FALCONBRIDGE NICKEL MINES LTD.
HARTY TOWNSHIP
INCO LTD.
ONAPING RIVER
SEAL LAKE
WANITANGA LAKE

Index Volume	Listing:	Report Volume	Part	Page
1	Onaping River, Vermilion River, Sud.			
	Falls, photo	14	3	6
	Glaciation near	14	3	102
	gravel plains	14	3	65, 106
	Rocks on and near	13	1	197
		14	3	64
	breccia	1		86
	diabase	1		76
	petrography	4		131,132
	pyritous	14	3	95,131
	tuff, notes	14	3	10, 39, 86, 94
2	Onaping River, Vermilion River, Sud.			
	Norite	29	1	202
	Micropegmatite	34	8	24
3	Onaping River, Vermilion River			
	Fault; glacial deposits	38	7	54
8	Harty Tp., Sudbury Dist.			
	Geology of the Leinster-Bowell area	GR 65		
9	Harty Tp., Sudbury Dist.			
	Geology (Quaternary) of the Sudbury Basin area	GR 181		
	Sand and gravel	GR 181		47

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference
		REGIONAL GEOLOGICAL COMPILATION MAPS	
Card, K. D.	1966-67	Sudbury Mining Area	ODM Map 2170
	1965, 67	Cartier Sheet	ODM Map P.287
Card, K. D., Innes, D. G.	1980	Geneva Lake	OGS Map 2435
Card, K. D., Lumbers, S. B.	1974, 75	Sudbury-Cobalt Geological Compilation (revised)	OGS Map 2361
Card, K. D., Meyn, H. D.	1965	Harty Township	P. 314
Dressler, B. O.	1984	Sudbury Geological Compilation	OGS Map 2491
	1983	Sudbury Mining Area, West Part	OGS Map P. 2602
		GEOPHYSICAL MAPS	
GSC - ODM	1965	Aeromagnetic Map - Chelmsford	1518G
		Aeromagnetic Map - Venetian Lake	1519G
Gupta, V. K.	1981	Bouguer Gravity and Generalized Map of the Sudbury-Onaping Lake Area	OGS Map P.2482
ODM - GSC	1965	Aeromagnetic Map - Sudbury Sheet	7067G
	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING	
Burwasser, G. J.	1972	Quaternary Geology and Industrial Mineral Resources of the Sudbury Area (West Part)	Map P.751

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
E.M.R.	1975	Topographic Map - Chelmsford		1:50,000
		Topographic Map- Venetian Lake		1:50,000
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map, Cartier	Map 5000	1:100,000
		N.O.E.G.T. Study 94, Cartier Area		
		N.O.E.G.T.S. General Construction Capability Map, Cartier	Map 5004	1:100,000
Sado, E. V. and Carswell, B. F.	1987	Surficial Geology of Northern Ontario	OGS Map 2518	1:1,200,000
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	OGS Map P.1512	1:250,000
		GEOCHEMICAL MAPS		
		No data available as of March 20, 1988		
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1981	Harty Township - Sudbury Data Series	Map P.2144	1" = ½ mile
Burwasser, G. J.	1979	Quaternary Geology of the Sudbury Basin Area	GR 181 Map 2397	1:50,000
Card, K. D. and Hutchinson, R. W.	1972	The Sudbury Structure: its Regional Geological Setting	G.A.C. Special Paper 10	pp.67-78
Card, K. D., Innes, D. G.	1981	Geology of the Benny Area	GR 206	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Card, K. D., Meyn, H. D.	1969	Geology of the Leinster-Bowell Area	GR 65 Map 2132	1" = ½ mile
Chandler, F. W.	1986	Sedimentology and Paleoclimatology of the Huronian (Early Aphebian) Lorrain and Gordon Lake Formations and their Bearing on Models for Sedimentary Copper Mineralization	GSC Paper 86-1A	pp. 121-132
		JOURNALS, ARTICLES, THESES, TECHNICAL REPORTS		
Assad, R. J.	1955	The Formation of Certain Granite-like Rocks in the Footwall of the Sudbury Norite, Northwest of the Sudbury Basin; M. Sc., McGill University	MP-2	
Chute, N. E.	1938	The Upper Contact of the Sudbury Nickel Intrusive; Ph. D., Harvard University	MP-2	
Hewins, R. H.	1971	The Petrology of some Marginal Rocks Along the North Range of the Sudbury Irruptive	Sudbury Theses File	
Knight, C. W.	1923	The Chemical Composition of the Norite-micropegmatite Sudbury, Ontario	Econ. Geol., Vol.18	pp. 592-594
Morris, W. A.	1981	A Positive Fold Test from Nipissing Diabase	National Research Council of Canada	pp. 591-598
Peredery, W. V. and Naldrett, A. J.	1975	Petrology of the Upper Irruptive Rocks, Sudbury, Ontario	Econ. Geol., Vol.70	pp. 164-175
Young, G. M.	1981	The Early Proterozoic Gowganda Formation, Ontario, Canada. Earth's Pre-Pleistocene Glacial Record	Cambridge University Press	pp. 807-812

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO.9

NOTES AND ADDENDA

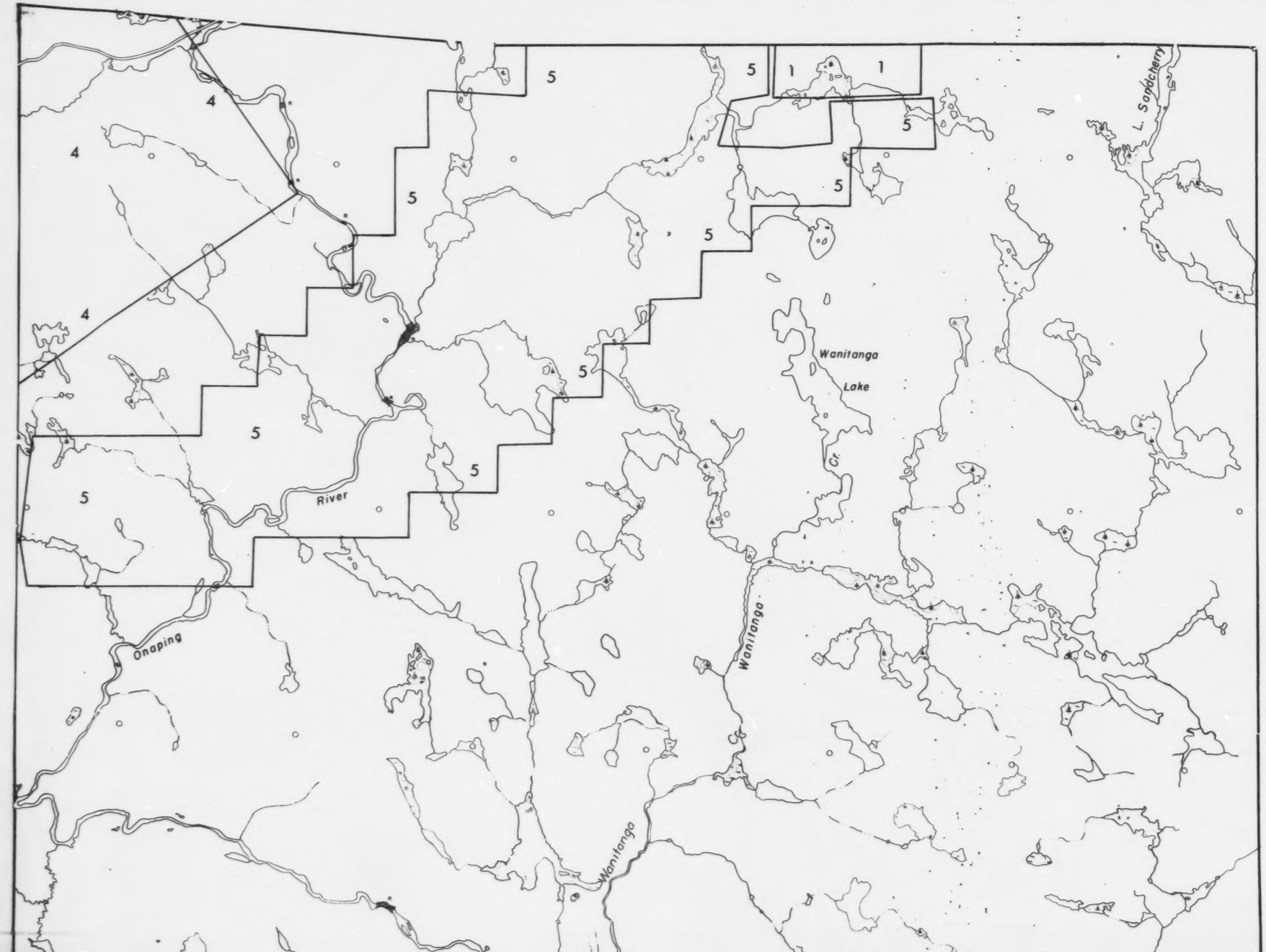
AERIAL PHOTOGRAPHS INDEX

Scale 1" = ¼ mile

Sudbury Files

Year	Roll	Line	Number
1973	4633	25	186-192
	4632	25	78-80
1959	4631	6	74-76
	4631	5	110-113
	4630	6	33-40
	4629	12	7-13

GDIF FORM NO.10



Ontario

Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 457

(Map 1 of 2)

HARTY TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 457

(Map 1 of 2)

HARTY TOWNSHIP

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Scale 1:31 680

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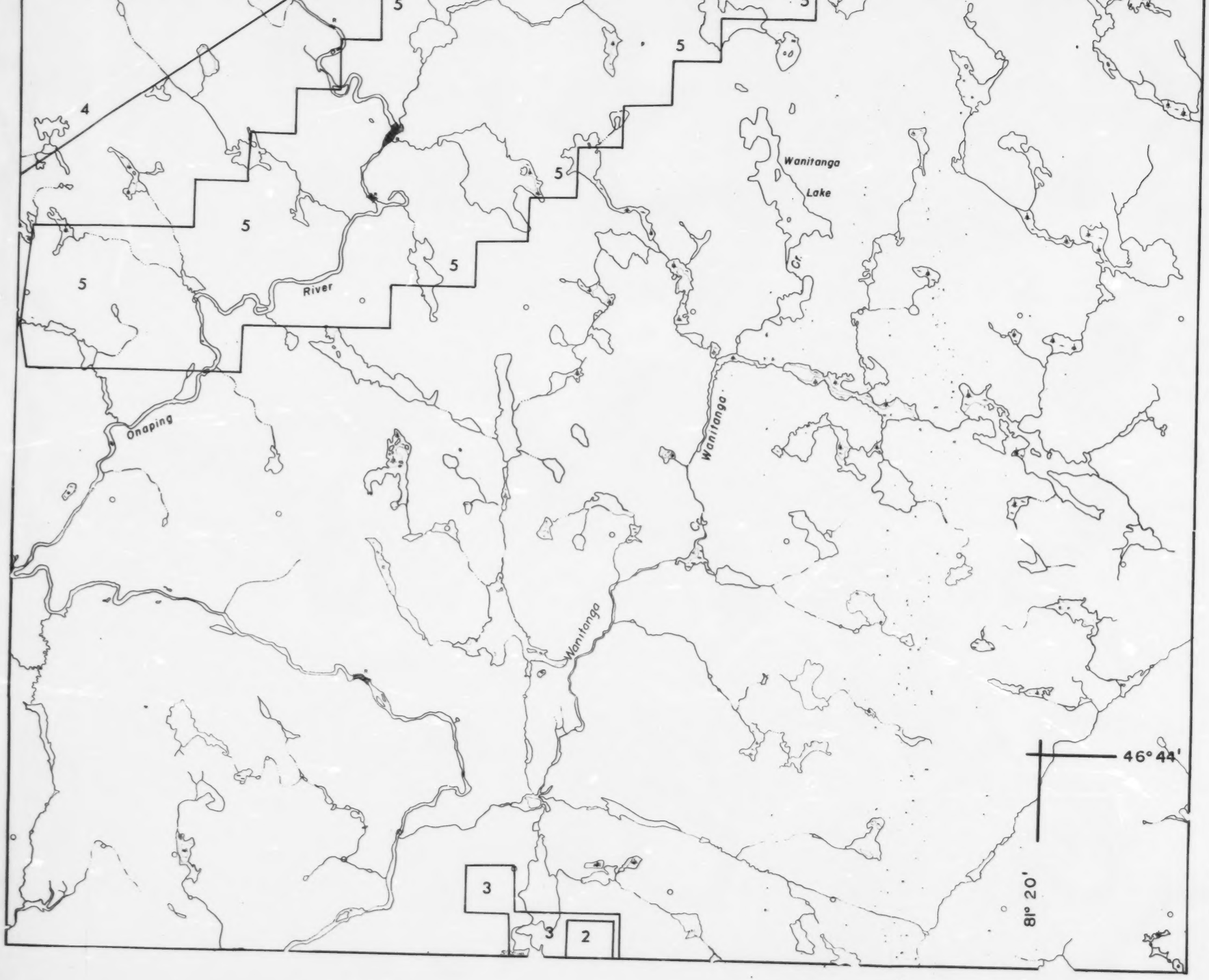


EXPLORATION DATA FILE AREAS

- ■ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.
- □ x ④ Small area of exploration
- □ ★ File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

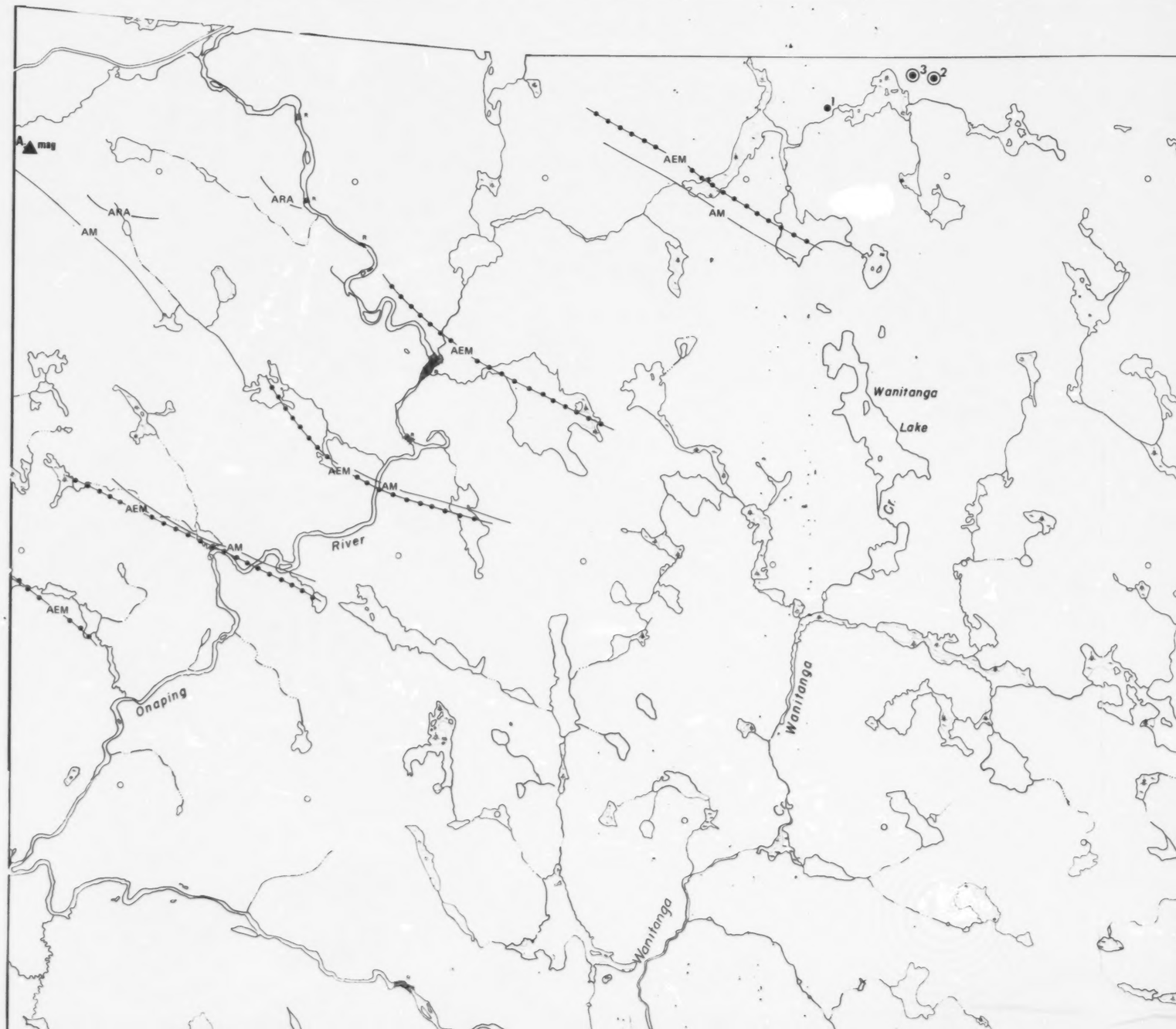
GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

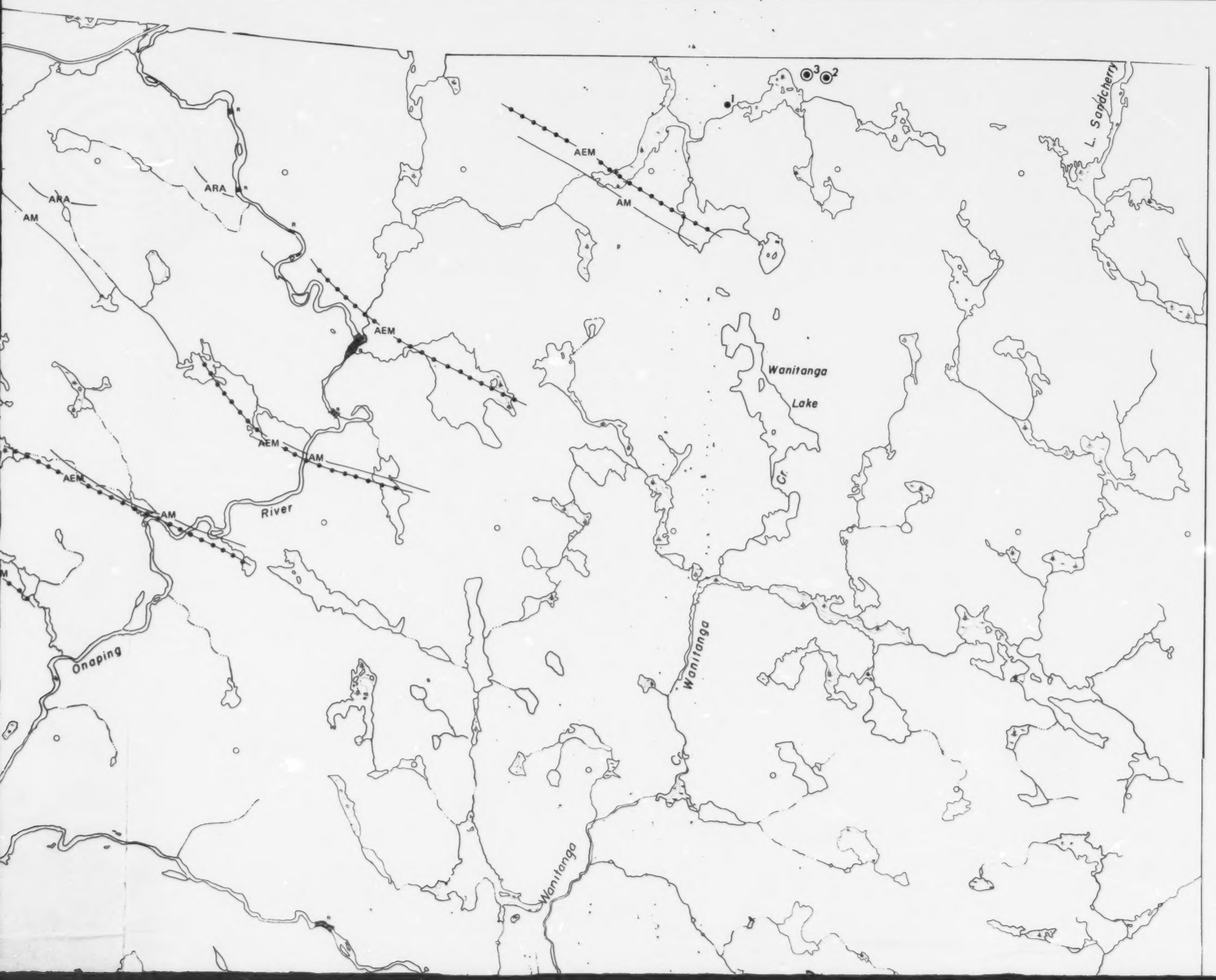
- Geochemical sample site, with reference number
- Area of geochemical sampling, with reference number
- Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- Airborne radiometric anomaly
- Ground magnetic anomaly
- Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop
  VLF - Very low freq.; Turam; JEM -
  Crone Em - 16)
- Ground radiometric anomaly
- Induced polarization anomaly
- Self potential anomaly
- Audio-frequency magnetic anomaly
  (total intensity)
- Resistivity anomaly
- Gravity anomaly

MISCELLANEOUS DATA





Ontario Ministry of Northern Development and Mines

Mines and Minerals Division

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 457

(Map 2 of 2)

HARTY TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ■ cp A. — Mineral occurrence at surface, with reference letter
- □ Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- □ Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- □ cp A. — Mineralized float with reference letter
- □ A. — Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ■ ●2 — Location of single drillhole, with reference number

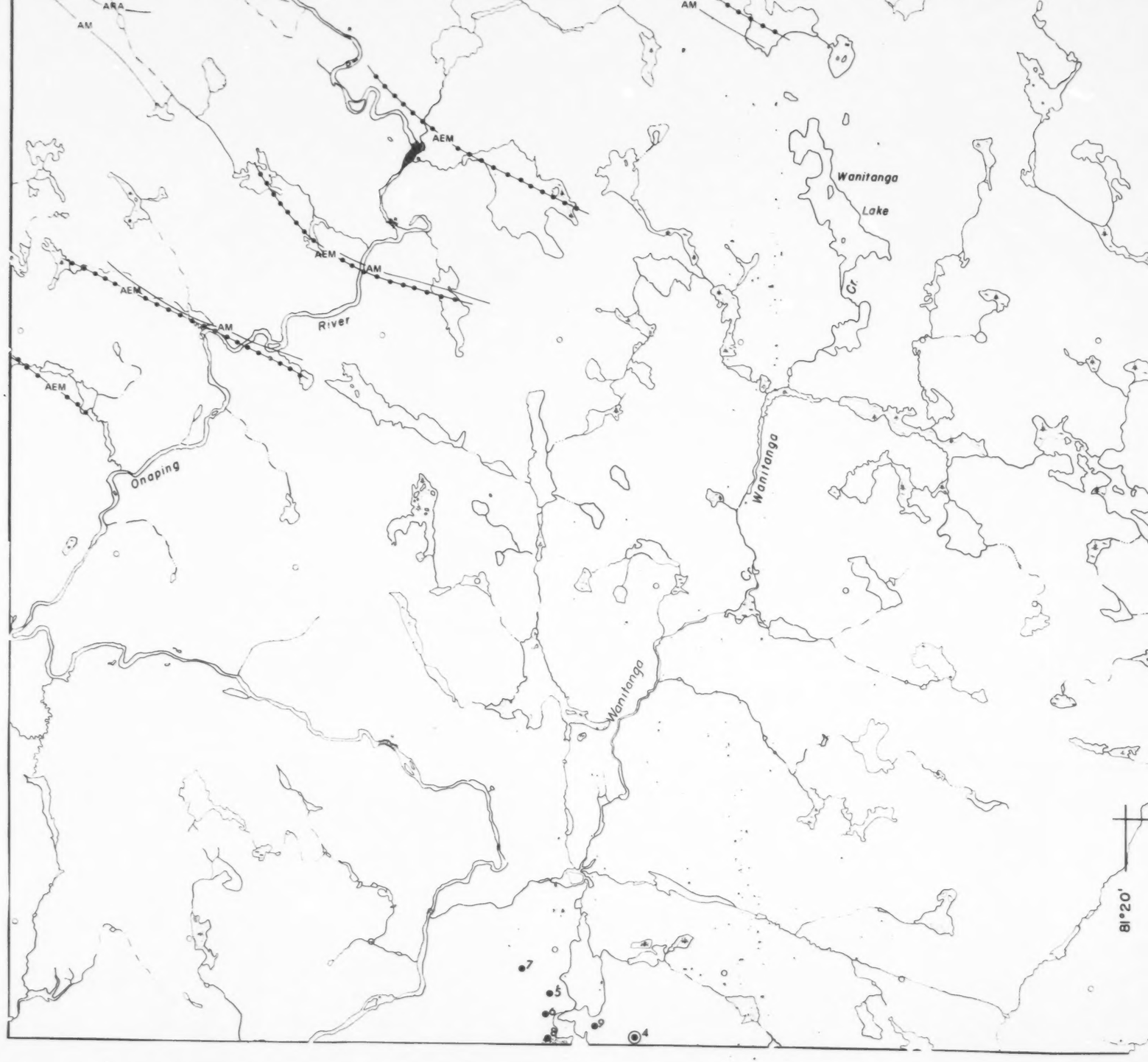
GEOPHYSICAL ANOMALIES

- AM — Airborne magnetic anomaly
- Airborne electromagnetic anomaly
  Length of anomaly along flight line
- Airborne electromagnetic anomaly
  Location of anomaly along flight line
- Airborne electromagnetic anomaly
  Conductor axis: definite, probable, possible
- ARA — Airborne radiometric anomaly
- M — Ground magnetic anomaly
- VL — Ground electromagnetic anomaly
  (VL - Vertical loop, HL - Horizontal loop
  VLF - Very low freq.; Turam; JEM -
  Crone Em - 16)
- RA — Ground radiometric anomaly
- IP — Induced polarization anomaly
- SP — Self potential anomaly
- AFMAG — Audio-frequency magnetic anomaly
  (total intensity)
- R — Resistivity anomaly
- GR — Gravity anomaly

MISCELLANEOUS DATA

- Trenching, pit
- Adit
- Open pit
- Rock quarry
- Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 457

(Map 2 of 2)

HARTY TOWNSHIP

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DRILLHOLES

- ●² — Location of single drillhole, with reference number
- ◉² — Location of closely spaced group of drillholes, with reference number
- (?)² — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- ○² — Property with drillholes which have not been plotted on map, with reference number
- ⊕² — Reverse circulation drillhole; churn drilling, with reference number

AEM

AM

Wanitanga Lake

Wanitanga Cr.

Onaping River

Wanitanga

46° 44'

81°20'